

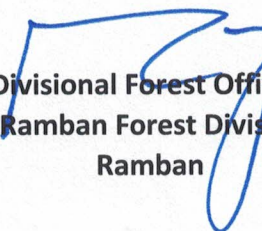
**Name of Project:-** 4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir  
**Proposal No. :-**  
 FP/JK/ROAD/145108/2021

### ABSTRACT OF THE BIOLOGICAL MEASURES OF MUCK DUMPING SITES

S.No.	DUMPING SITE	Area	Fencing	Afforestation					Geo-textile Mat	Amount (in Lacs)
				Plantation	Agave	Grass slips	Cuttings	Seed Balls		
1	MDS1a Marog	2.7519	4000	4200	11000	11000	2800	2800	5000	28.12583
2	MDS1b Marog	2.0535	3000	3100	8300	8300	2100	2100	5000	25.21232
3	MDS2 Marog	15.7285	8000	24000	62000	62000	15800	15800	20000	115.7098
4	MDS3 Digdole	3.1997	4000	4800	12800	12800	3200	3200	1000	16.05127
5	MDS 4a Digdole	4.6953	5000	6800	18000	18000	4500	4500	3000	27.17141
6	MDS 4b Digdole	6.254	4000	9400	25000	25000	6300	6300	2000	27.33259
TOTAL		34.6829	28000	52300	137100	137100	34700	34700	36000	239.6032

  
**Block Officer**  
 Forest Block Ramban

  
**Range Officer**  
 Range Officer  
 Forest Range Ramban

  
**Divisional Forest Officer**  
 Ramban Forest Division  
 Ramban




**Biological measures for stabilizatn of muck dumping site MDS1a Marog  
(Area=2.7519 ha)**

**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

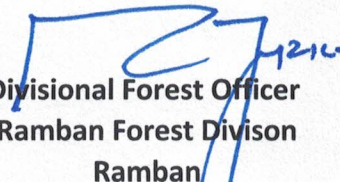
**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4000	100	400000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	4200	29.34	123228
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	11000	15.45	169950
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	11000	6.35	69850
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	2800	6	16800
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	2800	2.35	6580
	<b>Total 2</b>				386408
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			270485.6
4	<b>Geo Textile Mat etc</b>	Sq.M.	5000	300	1500000
	<b>Total ( 1+2+3+4)</b>				2556893.6
5	<b>Overhead 10% of total</b>				255689
	<b>Grand Total</b>				2812583

Say **28.13**  
Lacs

  
**Block Officer**  
**Forest Block Ramban**

  
**Range Officer**  
**Forest Range Ramban**

  
**Divisional Forest Officer**  
**Ramban Forest Division**  
**Ramban**



**Biological measures for stabilizatn of muck dumping site MDS1b Marog**  
(Area=2.0535 ha)

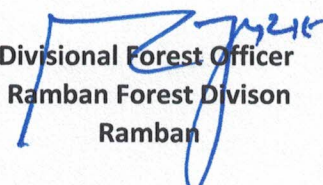
**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir


**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	3000	100	300000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	3100	29.34	90954
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	8300	15.45	128235
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	8300	6.35	52705
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	2100	6	12600
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	2100	2.35	4935
	<b>Total 2</b>				289429
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			202600.3
4	<b>Geo Textile Mat etc</b>	Sq.M.	5000	300	1500000
	<b>Total ( 1+2+3+4)</b>				2292029
5	Overhead 10% of total				229203
	<b>Grand Total</b>				2521232

Say **25.21**  
Lacs

  
**Range Officer**  
Forest Range, Ramban

  
**Divisional Forest Officer**  
Ramban Forest Division  
Ramban

  
**Block Officer**  
Forest Block Ramban




**Biological measures for stabilizatn of muck dumping site MDS2 Marog**  
(Area=15.7285 ha)

**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

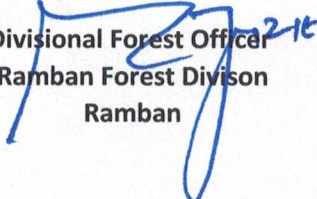
**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	8000	100	800000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	24000	29.34	704160
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	62000	15.45	957900
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	62000	6.35	393700
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	15800	6	94800
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	15800	2.35	37130
	<b>Total 2</b>				2187690
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			1531383
4	<b>Geo Textile Mat etc</b>	Sq.M.	20000	300	6000000
	<b>Total ( 1+2+3+4)</b>				10519073
5	Overhead 10% of total				1051907
	<b>Grand Total</b>				11570980

Say 115.71  
Lacs

  
**Block Officer**  
Forest Block Ramban

  
**Range Officer**  
Forest Range, Ramban

  
**Divisional Forest Officer**  
Ramban Forest Division  
Ramban



# Biological measures for stabilizatoin of muck dumping site MDS3 Digdole (Area=3.1997 ha)

**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4000	100	400000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	4800	29.34	140832
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	12800	15.45	197760
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	12800	6.35	81280
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	3200	6	19200
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	3200	2.35	7520
	<b>Total 2</b>				446592
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			312614.4
4	<b>Geo Textile Mat etc</b>	Sq.M.	1000	300	300000
	<b>Total ( 1+2+3+4)</b>				1459206
5	Overhead 10% of total				145921
	<b>Grand Total</b>				1605127

Say 16.05  
Lacs

Range Officer  
Forest Range, Ramban  
Block Officer  
Forest Block Ramban

Divisional Forest Officer  
Ramban Forest Divison  
Ramban



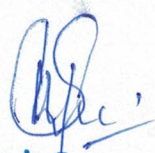
**Biological measures for stabilizatn of muck dumping site MDS4a Digdole**  
**(Area=4.5953 ha)**

**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

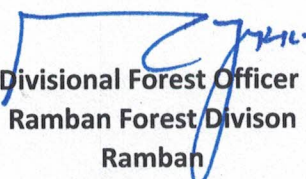
**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	5000	100	500000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	6800	29.34	199512
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	18000	15.45	278100
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	18000	6.35	114300
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	4500	6	27000
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	4500	2.35	10575
	<b>Total 2</b>				629487
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			440640.9
4	<b>Geo Textile Mat etc</b>	Sq.M.	3000	300	900000
	<b>Total ( 1+2+3+4)</b>				2470128
5	Overhead 10% of total				247013
	<b>Grand Total</b>				2717141

Say **27.17**  
Lacs

  
**Block Officer**  
 Forest Block Ramban

  
**Range Officer**  
 Forest Range Ramban

  
**Divisional Forest Officer**  
 Ramban Forest Division  
 Ramban



**Biological measures for stabilizatoin of muck dumping site MDS4b Digdole**  
(Area=6.2540 ha)

**Name of Project:-**4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

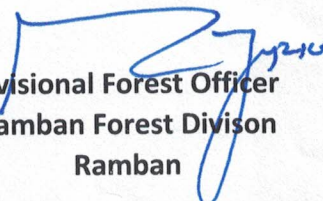
**Proposal No. :-**FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4000	100	400000
2	<b>Afforestation ( 1st year)</b>				
i.	<b>Plantation:-</b> Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	9400	29.34	275796
ii.	<b>Agave:-</b> Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	25000	15.45	386250
iii	<b>Grass slips:-</b> (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	25000	6.35	158750
iv	<b>Cutting:-</b> Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	6300	6	37800
v	<b>Seed ball:-</b> Broad casting/ dibbling of seed balls	Nos.	6300	2.35	14805
	<b>Total 2</b>				873401
3	<b>Maintenance for 9 years:</b> 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			611380.7
4	<b>Geo Textile Mat etc</b>	Sq.M.	2000	300	600000
	<b>Total ( 1+2+3+4)</b>				2484781.7
5	Overhead 10% of total				248478
	<b>Grand Total</b>				2733259.9

Say **27.33**  
Lacs

  
**Block Officer**  
Forest Block Ramban

  
**Range Officer**  
Forest Range Ramban

  
**Divisional Forest Officer**  
Ramban Forest Divison  
Ramban